

Title (en)  
Light filter and analytical instrument and optical equipment using the same

Title (de)  
Lichtfilter und Analyseinstrument und optische Ausrüstung damit

Title (fr)  
Filtre de lumière, instrument analytique et équipement optique les utilisant

Publication  
**EP 2369398 A1 20110928 (EN)**

Application  
**EP 11158030 A 20110314**

Priority  
JP 2010059546 A 20100316

Abstract (en)  
A light filter has a first reflecting film and a second reflecting film opposed to each other, a first electrode, a second electrode, a third electrode, a fourth electrode, and a potential difference control unit, the first electrode and the third electrode are opposed at a first distance, the second electrode and the fourth electrode are opposed at a second distance different from the first distance, the potential difference control unit brings the first electrode and the third electrode into contact by producing a potential difference between the first electrode and the third electrode and brings the second electrode and the fourth electrode into contact by producing a potential difference between the second electrode and the fourth electrode, and thereby, a gap between the first reflecting film and the second reflecting film may be controlled with high accuracy.

IPC 8 full level  
**G02B 6/293** (2006.01); **G02B 26/00** (2006.01)

CPC (source: EP US)  
**G01J 3/26** (2013.01 - EP US); **G02B 6/29346** (2013.01 - EP US); **G02B 6/29395** (2013.01 - EP US); **G02B 26/001** (2013.01 - EP US)

Citation (applicant)  
JP H11142752 A 19990528 - YOKOGAWA ELECTRIC CORP

Citation (search report)  
• [Y] US 2005146241 A1 20050707 - WAN CHANG-FEGN [US]  
• [I] US 5142414 A 19920825 - KOEHLER DALE R [US]  
• [Y] US 2007242920 A1 20071018 - LIN PINYEN [US], et al

Cited by  
CN105074533A; EP2664947A1; CN103424865A; CN107479182A; EP2687832A1; EP3106910A4; US10591715B2; US9389350B2; US9297997B2; WO2013052297A1; WO2014158704A1; US9217857B2; US9910262B2; US10782653B2

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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 2369398 A1 20110928**; CN 102193186 A 20110921; CN 102193186 B 20160316; JP 2011191661 A 20110929; JP 5348032 B2 20131120; US 2011228397 A1 20110922; US 2014268343 A1 20140918

DOCDB simple family (application)  
**EP 11158030 A 20110314**; CN 201110064935 A 20110314; JP 2010059546 A 20100316; US 201113044752 A 20110310; US 201414300448 A 20140610